SUBJECT INDEX

Accreditation

Outcomes Assessment: Sharing Responsibilities, Jack D. Bakos, Jr., EI July 99, p108-111.

Professional Design Component for Civil Engineering Curriculum, Enno "Ed" Koehn, EI Apr. 99, p35-39.

Analytical techniques

The Forest and the Trees, Brian Brenner, EI Jan. 99, p5.

ASCE Officers

Viewpoint. The Future of ASCE and Civil Engineers, W. F. Marcuson, III, EI July 99, p75.

ASCE Sections

Viewpoint. The Future of ASCE and Civil Engineers, W. F. Marcuson, III, EI July 99, p75.

Bids

Mock Bid Letting for Learning Assessment, Charles T. Jahren and Ryan Kipp, EI July 99, p103-107.

Bridge construction

Engineers of Dreams: Great Bridge Builders and the Spanning of America by Henry Petroski, Lisa J. Grebner, P.E., EI July 99, p119-120.

Bridge design

Engineers of Dreams: Great Bridge Builders and the Spanning of America by Henry Petroski, Lisa J. Grebner, P.E., EI July 99, p119-120.

Bridges

Engineers of Dreams: Great Bridge Builders and the Spanning of America by Henry Petroski, Lisa J. Grebner, P.E., EI July 99, p119-120.

Case reports

Ethics Cases in Professional Practice, Ronald E. Bucknam, EI Jan. 99, p2-5.

Change

Look Over the Horizon: A Call for Tomorrow's Champions, Daniel S. Turner, P.E., EI July 99, p70-74.

Civil engineering

Editor's Letter. The Work of the Faculty, Mark D. Evans, EI Jan. 99, p1.

The Loss of Professional Judgment in Civil Engineering, Michael Johannes Paul, EI Oct. 99, p128-130.

Tomorrow's Civil Systems Engineer—The Master Integrator, Joseph Bordogna, EI Apr. 98, p48-50.

Civil engineers

Viewpoint. The Future of ASCE and Civil Engineers, W. F. Marcuson, III, EI July 99, p75.

Claims

Ethics Cases in Professional Practice, Ronald E. Bucknam, EI Apr. 99, p32-34.

Columns

On the Shoulders of Giants—Part IV, Francis E. Griggs, Jr., EI Oct. 99, p138-146.

Community relations

Beyond Technicalities: Expanding Engineering Thinking, Sharon Beder, EI Jan. 99, p12-16.

Competition

Look Over the Horizon: A Call for Tomorrow's Champions, Daniel S. Turner, P.E., EI July 99, p70-74.

Computer aided instruction

Changing the Learning Paradigm Through the STC-Link Electronic Archive, Michael Tang and Lynn E. Johnson, EI Jan. 99, p19-24.

Development, Implementation, and Preliminary Assessment of Virtual Laboratory, Stephanie E. Yarbrough and Robert B. Gilbert, P.E., EI Oct. 99, p147-151.

Digital Imaging in Teaching Structures: A Rigorous Visual Approach, Kirk Martini, EI Apr. 99, p56-64.

Computer networks

Changing the Learning Paradigm Through the STC-Link Electronic Archive, Michael Tang and Lynn E. Johnson, EI Jan. 99, p19-24.

Digital Imaging in Teaching Structures: A Rigorous Visual Approach, Kirk Martini, EI Apr. 99, p56-64.

Constraints

Cost-Effective Allocation of Research Funds for Emerging Technologies, Rita A. Gregory, P.E. and Annie R. Pearce, EI July 99, p88-93.

Construction

The Master Builder Program: An Integrated Approach to Facility Design and Construction, Leonard D. Albano, P.E., Robert W. Fitzgerald, P.E., P. Jayachandran, Roberto Pietroforte and Guillermo F. Salazar, EI July 99, p112-118.

Construction industry

Survey of Risk Management in Major U.K. Companies, Scott Baker, David Ponniah and Simon Smith, EI July 99, p94-102.

Construction management

Integrated Construction Project Management: A Teaching Case Study, Osama Abudayyeh, P.E. and Kenneth Andersen, EI Oct. 99, p133-137.

Continuing education

The Forest and the Trees, Brian Brenner, EI Jan. 99, p5.

Contracts

Ethics Cases in Professional Practice, Ronald E. Bucknam, EI Apr. 99, p32-34.

Cooperation

Building Networks Through Peer Interaction, Martin H. Murray, EI Oct. 99, p159-162.

Cost control

Integrated Construction Project Management: A Teaching Case Study, Osama Abudayyeh, P.E. and Kenneth Andersen, EI Oct. 99, p133-137.

Cost effectiveness

Cost-Effective Allocation of Research Funds for Emerging Technologies, Rita A. Gregory, P.E. and Annie R. Pearce, EI July 99, p88-93.

Curricula

Beyond Technicalities: Expanding Engineering Thinking, Sharon Beder, EI Jan. 99, p12-16.

Changing the Learning Paradigm Through the STC-Link Electronic Archive, Michael Tang and Lynn E. Johnson, EI Jan. 99, p19-24.

A Course on Engineering Leadership, Richard H. McCuen, EI July 99, p79-82.

Editor's Letter. Leader Development—Make It Part of the Curriculum, Mark D. Evans, EI Apr. 99, p31.

A Five-Year Master of Environmental Engineering Curriculum, Ken Rainwater, R. Heyward Ramsey, III and David B. Thompson, EI Apr. 99, p40-46.

How Professors Play the Cat Guarding the Cream—Why We're Paying More and Getting Less in Higher Education by Richard M. Huber, Mark D. Evans, EI Oct. 99, p163-164.

Integrated Construction Project Management: A Teaching Case Study, Osama Abudayyeh, P.E. and Kenneth Andersen, EI Oct. 99, p133-137.

The Master Builder Program: An Integrated Approach to Facility Design and Construction, Leonard D. Albano, P.E., Robert W. Fitzgerald, P.E., P. Jayachandran, Roberto Pietroforte and Guillermo F. Salazar, EI July 99, p112-118.

Outcomes Assessment: Sharing Responsibilities, Jack D. Bakos, Jr., EI July 99, p108-111.

Problem-Based, Cooperative Learrning in the Engineering Classroom, Peggy A. Johnson, EI Jan. 99, p8-11.

Professional Design Component for Civil Engineering Curriculum, Enno "Ed" Koehn, EI Apr. 99, p35-39.

Decision making

Ethics Cases in Professional Practice, Ronald E. Bucknam, EI Apr. 99, p32-34.

Design

The Master Builder Program: An Integrated Approach to Facility Design and Construction, Leonard D. Albano, P.E., Robert W. Fitzgerald, P.E., P. Jayachandran, Roberto Pietroforte and Guillermo F. Salazar, EI July 99, p112-118.

On the Shoulders of Giants—Part IV, Francis E. Griggs, Jr., EI Oct. 99, p138-146.

When Engineering Fails by Henry Petroski (video), Norbert J. Delatte, EI July 99, p121.

Development

Editor's Letter. Developing Undergraduate Leaders Through Outreach Projects, Mark D. Evans, EI July 99, p69.

The Geography of Nowhere: The Rise and Decline of America's Man-Made Landscape by James Howard Kunstler, Brian Brenner, EI Apr. 99, p68.

Digital techniques

Digital Imaging in Teaching Structures: A Rigorous Visual Approach, Kirk Martini, EI Apr. 99, p56-64.

Economics

Challenges to Engineering Education in the 21st Century, Fadlo T. Touma, EI Oct. 99, p131-132.

Education

How Professors Play the Cat Guarding the Cream—Why We're Paying More and Getting Less in Higher Education by Richard M. Huber, Mark D. Evans, EI Oct. 99, p163-164.

Education-practice interchange

Stakeholders in Practitioner–Educator Partnering Compare Notes, Robert K. Tener, P.E., EI Oct. 99, p130-131.

Engineering

Beyond Engineering: How Society Shapes Technology by Robert Pool, Brian Brenner, EI Jan. 99, p29-30.

Challenges to Engineering Education in the 21st Century, Fadlo T. Touma, EI Oct. 99, p131-132.

Ethics Cases in Professional Practice, Ronald E. Bucknam, EI Jan. 99, p2-5.

Engineering education

Beyond Technicalities: Expanding Engineering Thinking, Sharon Beder, EI Jan. 99, p12-16.

Building Networks Through Peer Interaction, Martin H. Murray, EI Oct. 99, p159-162.

A Course on Engineering Leadership, Richard H. McCuen, EI July 99, p79-82.

Digital Imaging in Teaching Structures: A Rigorous Visual Approach, Kirk Martini, EI Apr. 99, p56-64.

Editor's Letter. Engineering Education—Prepare for Success, Mark D. Evans, EI Oct. 99, p123.

Editor's Letter. Leader Development—Make It Part of the Curriculum, Mark D. Evans, EI Apr. 99, p31.

Editor's Letter. The Work of the Faculty, Mark D. Evans, EI Jan. 99, p1.

Engineers of the Future: PEs or PhDs—Bidders or Proposers, Robert E. Adamski, P.E., EI Jan. 99, p5-7.

Evaluation Model Using Fundamentals of Engineering Examination, R. B. Wicker, R. Quintana, P.E. and A. Tarquin, P.E., EI Apr. 99, p47-44.

A Five-Year Master of Environmental Engineering Curriculum, Ken Rainwater, R. Heyward Ramsey, III and David B. Thompson, EI Apr. 99, p40-46.

The Forest and the Trees, Brian Brenner, EI Jan. 99, p5.

Malaysian Models for Engineering Education in the United States, James D. Stevens, P.E., EI Jan. 99, p25-28.

The Master Builder Program: An Integrated Approach to Facility Design and Construction, Leonard D. Albano, P.E., Robert W. Fitzgerald, P.E., P. Jayachandran, Roberto Pietroforte and Guillermo F. Salazar, EI July 99, p112-118.

Mock Bid Letting for Learning Assessment, Charles T. Jahren and Ryan Kipp, EI July 99, p103-107.

On the Shoulders of Giants—Part IV, Francis E. Griggs, Jr., EI Oct. 99, p138-146.

Outcomes Assessment: Sharing Responsibilities, Jack D. Bakos, Jr., EI July 99, p108-111.

Problem-Based, Cooperative Learrning in the Engineering Classroom, Peggy A. Johnson, EI Jan. 99, p8-11.

Professional Design Component for Civil Engineering Curriculum, Enno "Ed" Koehn, EI Apr. 99, p35-39.

Stakeholders in Practitioner–Educator Partnering Compare Notes, Robert K. Tener, P.E., EI Oct. 99, p130-131.

Tomorrow's Civil Systems Engineer—The Master Integrator, Joseph Bordogna, EI Apr. 98, p48-50.

Engineering services

When Engineering Fails by Henry Petroski (video), Norbert J. Delatte, EI July 99, p121.

Engineering societies

Look Over the Horizon: A Call for Tomorrow's Champions, Daniel S. Turner, P.E., EI July 99, p70-74.

Viewpoint. The Future of ASCE and Civil Engineers, W. F. Marcuson, III, EI July 99, p75.

Engineers

Beyond Engineering: How Society Shapes Technology by Robert Pool, Brian Brenner, EI Jan. 99, p29-30.

Engineers of the Future: PEs or PhDs—Bidders or Proposers, Robert E. Adamski, P.E., EI Jan. 99, p5-7.

Multinational Engineering Consortia: Selecting Team Members, Michael C. Ircha, P.E., EI Oct. 99, p152-157.

Spiritual Dimensions of Environmental Ethic for Engineers, P. Aarne Vesilind and Alastair S. Gunn, EI July 99, p83-87.

Tomorrow's Civil Systems Engineer—The Master Integrator, Joseph Bordogna, EI Apr. 98, p48-50.

Environmental engineering

A Five-Year Master of Environmental Engineering Curriculum, Ken Rainwater, R. Heyward Ramsey, III and David B. Thompson, EI Apr. 99, p40-46.

Environmental issues

Spiritual Dimensions of Environmental Ethic for Engineers, P. Aarne Vesilind and Alastair S. Gunn, EI July 99, p83-87.

Ethics

Applied Ethics Case of the Month: January–February, 1999, Ronald E. Bucknam, EI Oct. 99, p124-127.

Applied Ethics Case of the Month: November–December 1998, Ronald E. Bucknam, EI July 99, p76-78.

Ethics Cases in Professional Practice, Ronald E. Bucknam, EI Jan. 99, p2-5.

Ethics Cases in Professional Practice, Ronald E. Bucknam, EI Apr. 99, p32-34.

Spiritual Dimensions of Environmental Ethic for Engineers, P. Aarne Vesilind and Alastair S. Gunn, EI July 99, p83-87.

Evaluation

Outcomes Assessment: Sharing Responsibilities, Jack D. Bakos, Jr., EI July 99, p108-111.

Expansion

Look Over the Horizon: A Call for Tomorrow's Champions, Daniel S. Turner, P.E., EI July 99, p70-74.

Faculty

Editor's Letter. The Work of the Faculty, Mark D. Evans, EI Jan. 99, p1.

Outcomes Assessment: Sharing Responsibilities, Jack D. Bakos, Jr., EI July 99, p108-111.

Failures

When Engineering Fails by Henry Petroski (video), Norbert J. Delatte, EI July 99, p121.

Foreign countries

Multinational Engineering Consortia: Selecting Team Members, Michael C. Ircha, P.E., EI Oct. 99, p152-157.

Foreign engineering

Multinational Engineering Consortia: Selecting Team Members, Michael C. Ircha, P.E., EI Oct. 99, p152-157.

Funding allocations

Cost-Effective Allocation of Research Funds for Emerging Technologies, Rita A. Gregory, P.E. and Annie R. Pearce, EI July 99, p88-93.

Graduate study

A Five-Year Master of Environmental Engineering Curriculum, Ken Rainwater, R. Heyward Ramsey, III and David B. Thompson, EI Apr. 99, p40-46.

The Master Builder Program: An Integrated Approach to Facility Design and Construction, Leonard D. Albano, P.E., Robert W. Fitzgerald, P.E., P. Jayachandran, Roberto Pietroforte and Guillermo F. Salazar, EI July 99, p112-118.

History

Engineers of Dreams: Great Bridge Builders and the Spanning of America by Henry Petroski, Lisa J. Grebner, P.E., EI July 99, p119-120.

On the Shoulders of Giants—Part IV, Francis E. Griggs, Jr., EI Oct. 99, p138-146.

Human factors

Spiritual Dimensions of Environmental Ethic for Engineers, P. Aarne Vesilind and Alastair S. Gunn, EI July 99, p83-87.

Hydraulic engineering

Problem-Based, Cooperative Learrning in the Engineering Classroom, Peggy A. Johnson, EI Jan. 99, p8-11.

Images

Digital Imaging in Teaching Structures: A Rigorous Visual Approach, Kirk Martini, EI Apr. 99, p56-64.

Information

Challenges to Engineering Education in the 21st Century, Fadlo T. Touma, EI Oct. 99, p131-132.

Infrastructure

The Geography of Nowhere: The Rise and Decline of America's Man-Made Landscape by James Howard Kunstler, Brian Brenner, EI Apr. 99, p68.

Tomorrow's Civil Systems Engineer—The Master Integrator, Joseph Bordogna, EI Apr. 98, p48-50.

Innovation

The Loss of Professional Judgment in Civil Engineering, Michael Johannes Paul, EI Oct. 99, p128-130.

Integrated systems

Integrated Construction Project Management: A Teaching Case Study, Osama Abudayyeh, P.E. and Kenneth Andersen, EI Oct. 99, p133-137.

The Master Builder Program: An Integrated Approach to Facility Design and Construction, Leonard D. Albano, P.E., Robert W. Fitzgerald, P.E., P. Jayachandran, Roberto Pietroforte and Guillermo F. Salazar, EI July 99, p112-118.

Tomorrow's Civil Systems Engineer—The Master Integrator, Joseph Bordogna, EI Apr. 98, p48-50.

Interactive systems

Development, Implementation, and Preliminary Assessment of Virtual Laboratory, Stephanie E. Yarbrough and Robert B. Gilbert, P.E., EI Oct. 99, p147-151.

International development

Challenges to Engineering Education in the 21st Century, Fadlo T. Touma, EI Oct. 99, p131-132.

International factors

Look Over the Horizon: A Call for Tomorrow's Champions, Daniel S. Turner, P.E., EI July 99, p70-74.

Landscaping

The Geography of Nowhere: The Rise and Decline of America's Man-Made Landscape by James Howard Kunstler, Brian Brenner, EI Apr. 99, p68.

Leadership

A Course on Engineering Leadership, Richard H. McCuen, EI July 99, p79-82.

Editor's Letter. Developing Undergraduate Leaders Through Outreach Projects, Mark D. Evans, EI July 99, p69.

Editor's Letter. Leader Development—Make It Part of the Curriculum, Mark D. Evans, EI Apr. 99, p31.

Learning curve

When Engineering Fails by Henry Petroski (video), Norbert J. Delatte, EI July 99, p121.

Legal factors

Applied Ethics Case of the Month: January–February, 1999, Ronald E. Bucknam, EI Oct. 99, p124-127.

Ethics Cases in Professional Practice, Ronald E. Bucknam, EI Apr. 99, p32-34.

Liability

Applied Ethics Case of the Month: January–February, 1999, Ronald E. Bucknam, EI Oct. 99, p124-127.

Malaysia

Malaysian Models for Engineering Education in the United States, James D. Stevens, P.E., EI Jan. 99, p25-28.

Multimedia

Development, Implementation, and Preliminary Assessment of Virtual Laboratory, Stephanie E. Yarbrough and Robert B. Gilbert, P.E., EI Oct. 99, p147-151.

Partnering

Stakeholders in Practitioner–Educator Partnering Compare Notes, Robert K. Tener, P.E., EI Oct. 99, p130-131.

Peer groups

Building Networks Through Peer Interaction, Martin H. Murray, EI Oct. 99, p159-162.

Performance evaluation

Evaluation Model Using Fundamentals of Engineering Examination, R. B. Wicker, R. Quintana, P.E. and A. Tarquin, P.E., EI Apr. 99, p47-44.

Planning

Editor's Letter. Engineering Education—Prepare for Success, Mark D. Evans, EI Oct. 99, p123.

The Geography of Nowhere: The Rise and Decline of America's Man-Made Landscape by James Howard Kunstler, Brian Brenner, EI Apr. 99, p68.

Problem solving

The Loss of Professional Judgment in Civil Engineering, Michael Johannes Paul, EI Oct. 99, p128-130.

Professional engineering

Engineers of the Future: PEs or PhDs—Bidders or Proposers, Robert E. Adamski, P.E., EI Jan. 99, p5-7.

The Loss of Professional Judgment in Civil Engineering, Michael Johannes Paul, EI Oct. 99, p128-130.

Viewpoint. The Future of ASCE and Civil Engineers, W. F. Marcuson, III, EI July 99, p75.

Professional practice

Ethics Cases in Professional Practice, Ronald E. Bucknam, EI Jan. 99, p2-5.

Ethics Cases in Professional Practice, Ronald E. Bucknam, EI Apr. 99, p32-34.

A Five-Year Master of Environmental Engineering Curriculum, Ken Rainwater, R. Heyward Ramsey, III and David B. Thompson, EI Apr. 99, p40-46.

The Loss of Professional Judgment in Civil Engineering, Michael Johannes Paul, EI Oct. 99, p128-130.

Professional Design Component for Civil Engineering Curriculum, Enno "Ed" Koehn, EI Apr. 99, p35-39.

Professional registration

The Forest and the Trees, Brian Brenner, EI Jan. 99, p5.

Professional role

Applied Ethics Case of the Month: November–December 1998, Ronald E. Bucknam, EI July 99, p76-78.

Beyond Technicalities: Expanding Engineering Thinking, Sharon Beder, EI Jan. 99, p12-16.

A Course on Engineering Leadership, Richard H. McCuen, EI July 99, p79-82.

Spiritual Dimensions of Environmental Ethic for Engineers, P. Aarne Vesilind and Alastair S. Gunn, EI July 99, p83-87.

Tomorrow's Civil Systems Engineer—The Master Integrator, Joseph Bordogna, EI Apr. 98, p48-50.

Proposals

Applied Ethics Case of the Month: November–December 1998, Ronald E. Bucknam, EI July 99, p76-78.

Public safety

Applied Ethics Case of the Month: January–February, 1999, Ronald E. Bucknam, EI Oct. 99, p124-127.

Publications

Editor's Letter. The Work of the Faculty, Mark D. Evans, EI Jan. 99, p1.

Registration

Viewpoint. The Future of ASCE and Civil Engineers, W. F. Marcuson, III, EI July 99, p75.

Research

Editor's Letter. The Work of the Faculty, Mark D. Evans, EI Jan. 99, p1.

How Professors Play the Cat Guarding the Cream—Why We're Paying More and Getting Less in Higher Education by Richard M. Huber, Mark D. Evans, EI Oct. 99, p163-164.

Research and development

Cost-Effective Allocation of Research Funds for Emerging Technologies, Rita A. Gregory, P.E. and Annie R. Pearce, EI July 99, p88-93.

Responses

Editor's Letter. Engineering Education—Prepare for Success, Mark D. Evans, EI Oct. 99, p123.

Responsibilities

Applied Ethics Case of the Month: January–February, 1999, Ronald E. Bucknam, EI Oct. 99, p124-127.

Responsibility

Outcomes Assessment: Sharing Responsibilities, Jack D. Bakos, Jr., EI July 99, p108-111.

Reviews

How Professors Play the Cat Guarding the Cream—Why We're Paying More and Getting Less in Higher Education by Richard M. Huber, Mark D. Evans, EI Oct. 99, p163-164.

The Geography of Nowhere: The Rise and Decline of America's Man-Made Landscape by James Howard Kunstler, Brian Brenner, EI Apr. 99, p68.

Risk analysis
Survey of Risk Management in Major U.K. Companies, Scott Baker, David Ponniah and Simon Smith, EI July 99, p94-102.

Risk management
Survey of Risk Management in Major U.K. Companies, Scott Baker, David Ponniah and Simon Smith, EI July 99, p94-102.

Scheduling
Integrated Construction Project Management: A Teaching Case Study, Osama Abudayyeh, P.E. and Kenneth Andersen, EI Oct. 99, p133-137.

Simulation
Mock Bid Letting for Learning Assessment, Charles T. Jahren and Ryan Kipp, EI July 99, p103-107.

Social aspects
Beyond Engineering: How Society Shapes Technology by Robert Pool, Brian Brenner, EI Jan. 99, p29-30.
Beyond Technicalities: Expanding Engineering Thinking, Sharon Beder, EI Jan. 99, p12-16.
Multinational Engineering Consortia: Selecting Team Members, Michael C. Ircha, P.E., EI Oct. 99, p152-157.

Sociological factors
Multinational Engineering Consortia: Selecting Team Members, Michael C. Ircha, P.E., EI Oct. 99, p152-157.

Structural design
Digital Imaging in Teaching Structures: A Rigorous Visual Approach, Kirk Martini, EI Apr. 99, p56-64.

Students
Building Networks Through Peer Interaction, Martin H. Murray, EI Oct. 99, p159-162.
Editor's Letter. Developing Undergraduate Leaders Through Outreach Projects, Mark D. Evans, EI July 99, p69.
Evaluation Model Using Fundamentals of Engineering Examination, R. B. Wicker, R. Quintana, P.E. and A. Tarquin, P.E., EI Apr. 99, p47-44.
Malaysian Models for Engineering Education in the United States, James D. Stevens, P.E., EI Jan. 99, p25-28.
Mock Bid Letting for Learning Assessment, Charles T. Jahren and Ryan Kipp, EI July 99, p103-107.

Surveys, data collection
Survey of Risk Management in Major U.K. Companies, Scott Baker, David Ponniah and Simon Smith, EI July 99, p94-102.

Teaching methods
Changing the Learning Paradigm Through the STC-Link Electronic Archive, Michael Tang and Lynn E. Johnson, EI Jan. 99, p19-24.
Development, Implementation, and Preliminary Assessment of Virtual Laboratory, Stephanie E. Yarbrough and Robert B. Gilbert, P.E., EI Oct. 99, p147-151.
Editor's Letter. Engineering Education—Prepare for Success, Mark D. Evans, EI Oct. 99, p123.
Mock Bid Letting for Learning Assessment, Charles T. Jahren and Ryan Kipp, EI July 99, p103-107.
On the Shoulders of Giants—Part IV, Francis E. Griggs, Jr., EI Oct. 99, p138-146.
Problem-Based, Cooperative Learrning in the Engineering Classroom, Peggy A. Johnson, EI Jan. 99, p8-11.

Teamwork
Building Networks Through Peer Interaction, Martin H. Murray, EI Oct. 99, p159-162.
Multinational Engineering Consortia: Selecting Team Members, Michael C. Ircha, P.E., EI Oct. 99, p152-157.

Technology
Beyond Engineering: How Society Shapes Technology by Robert Pool, Brian Brenner, EI Jan. 99, p29-30.
Challenges to Engineering Education in the 21st Century, Fadlo T. Touma, EI Oct. 99, p131-132.
Changing the Learning Paradigm Through the STC-Link Electronic Archive, Michael Tang and Lynn E. Johnson, EI Jan. 99, p19-24.
Cost-Effective Allocation of Research Funds for Emerging Technologies, Rita A. Gregory, P.E. and Annie R. Pearce, EI July 99, p88-93.

Undergraduate study
Development, Implementation, and Preliminary Assessment of Virtual Laboratory, Stephanie E. Yarbrough and Robert B. Gilbert, P.E., EI Oct. 99, p147-151.
Editor's Letter. Developing Undergraduate Leaders Through Outreach Projects, Mark D. Evans, EI July 99, p69.
Editor's Letter. Leader Development—Make It Part of the Curriculum, Mark D. Evans, EI Apr. 99, p31.
Malaysian Models for Engineering Education in the United States, James D. Stevens, P.E., EI Jan. 99, p25-28.
Stakeholders in Practitioner–Educator Partnering Compare Notes, Robert K. Tener, P.E., EI Oct. 99, p130-131.

United Kingdom
Survey of Risk Management in Major U.K. Companies, Scott Baker, David Ponniah and Simon Smith, EI July 99, p94-102.

Universities
Editor's Letter. The Work of the Faculty, Mark D. Evans, EI Jan. 99, p1.
Engineers of the Future: PEs or PhDs—Bidders or Proposers, Robert E. Adamski, P.E., EI Jan. 99, p5-7.
How Professors Play the Cat Guarding the Cream—Why We're Paying More and Getting Less in Higher Education by Richard M. Huber, Mark D. Evans, EI Oct. 99, p163-164.

Urban sprawl
The Geography of Nowhere: The Rise and Decline of America's Man-Made Landscape by James Howard Kunstler, Brian Brenner, EI Apr. 99, p68.

Videotape
When Engineering Fails by Henry Petroski (video), Norbert J. Delatte, EI July 99, p121.

AUTHOR INDEX

Abudayyeh, Osama, P.E.
Integrated Construction Project Management: A Teaching Case Study, with Kenneth Andersen, EI Oct. 99, p133-137

Adamski, Robert E., P.E.
Engineers of the Future: PEs or PhDs—Bidders or Proposers, EI Jan. 99, p5-7

Albano, Leonard D., P.E.
The Master Builder Program: An Integrated Approach to Facility Design and Construction, with Robert W. Fitzgerald, P.E., P. Jayachandran, Roberto Pietroforte and Guillermo F. Salazar, EI July 99, p112-118

Andersen, Kenneth
see Abudayyeh, Osama, P.E., EI Oct. 99, p133-137

Baker, Scott
Survey of Risk Management in Major U.K. Companies, with David Ponniah and Simon Smith, EI July 99, p94-102

Bakos, Jack D., Jr.
Outcomes Assessment: Sharing Responsibilities, EI July 99, p108-111

Beder, Sharon
Beyond Technicalities: Expanding Engineering Thinking, EI Jan. 99, p12-16

Bordogna, Joseph
Tomorrow's Civil Systems Engineer—The Master Integrator, EI Apr. 98, p48-50
disc: Neil S. Grigg, EI Apr. 99, p66-67

Brenner, Brian
Beyond Engineering: How Society Shapes Technology by Robert Pool, EI Jan. 99, p29-30
The Forest and the Trees, EI Jan. 99, p5
The Geography of Nowhere: The Rise and Decline of America's Man-Made Landscape by James Howard Kunstler, EI Apr. 99, p68

Bucknam, Ronald E.
Applied Ethics Case of the Month: January–February, 1999, EI Oct. 99, p124-127
Applied Ethics Case of the Month: November–December 1998, EI July 99, p76-78
Ethics Cases in Professional Practice, EI Jan. 99, p2-5
Ethics Cases in Professional Practice, EI Apr. 99, p32-34

Delatte, Norbert J.
When Engineering Fails by Henry Petroski (video), EI July 99, p121

Evans, Mark D.
Editor's Letter. Developing Undergraduate Leaders Through Outreach Projects, EI July 99, p69
Editor's Letter. Engineering Education—Prepare for Success, EI Oct. 99, p123
Editor's Letter. Leader Development—Make It Part of the Curriculum, EI Apr. 99, p31
Editor's Letter. The Work of the Faculty, EI Jan. 99, p1
How Professors Play the Cat Guarding the Cream—Why We're Paving More and Getting Less in Higher Education by Richard M. Huber, EI Oct. 99, p163-164

Fitzgerald, Robert W., P.E.
see Albano, Leonard D., P.E., EI July 99, p112-118

Gilbert, Robert B., P.E.
see Yarbrough, Stephanie E., EI Oct. 99, p147-151

Grebner, Lisa J., P.E.
Engineers of Dreams: Great Bridge Builders and the Spanning of America by Henry Petroski, EI July 99, p119-120

Gregory, Rita A., P.E.
Cost-Effective Allocation of Research Funds for Emerging Technologies, with Annie R. Pearce, EI July 99, p88-93

Grigg, Neil S.
disc. (of Tomorrow's Civil Systems Engineer—The Master Integrator, by Joseph Bordogna, EI Apr. 98, p48-50), EI Apr. 99, p66-67

Griggs, Francis E., Jr.
On the Shoulders of Giants—Part IV, EI Oct. 99, p138-146

Gunn, Alastair S.
see Vesilind, P. Aarne, EI July 99, p83-87

Ircha, Michael C., P.E.
Multinational Engineering Consortia: Selecting Team Members, EI Oct. 99, p152-157

Jahren, Charles T.
Mock Bid Letting for Learning Assessment, with Ryan Kipp, EI July 99, p103-107

Jayachandran, P.
see Albano, Leonard D., P.E., EI July 99, p112-118

Johnson, Lynn E.
see Tang, Michael, EI Jan. 99, p19-24

Johnson, Peggy A.
Problem-Based, Cooperative Learning in the Engineering Classroom, EI Jan. 99, p8-11

Kipp, Ryan
see Jahren, Charles T., EI July 99, p103-107

Koehn, Enno "Ed"
Professional Design Component for Civil Engineering Curriculum, EI Apr. 99, p35-39

Marcuson, W. F., III
Viewpoint. The Future of ASCE and Civil Engineers, EI July 99, p75

Martini, Kirk
Digital Imaging in Teaching Structures: A Rigorous Visual Approach, EI Apr. 99, p56-64

McCuen, Richard H.
A Course on Engineering Leadership, EI July 99, p79-82

Murray, Martin H.
Building Networks Through Peer Interaction, EI Oct. 99, p159-162

Paul, Michael Johannes
The Loss of Professional Judgment in Civil Engineering, EI Oct. 99, p128-130

Pearce, Annie R.
see Gregory, Rita A., P.E., EI July 99, p88-93

Pietroforte, Roberto
see Albano, Leonard D., P.E., EI July 99, p112-118

Ponniah, David
see Baker, Scott, EI July 99, p94-102

Quintana, R., P.E.
see Wicker, R. B., EI Apr. 99, p47-44

Rainwater, Ken
A Five-Year Master of Environmental Engineering Curriculum, with R. Heyward Ramsey, III and David B. Thompson, EI Apr. 99, p40-46

Ramsey, R. Heyward, III
see Rainwater, Ken, EI Apr. 99, p40-46

Salazar, Guillermo F.
see Albano, Leonard D., P.E., EI July 99, p112-118

Smith, Simon
see Baker, Scott, EI July 99, p94-102

Stevens, James D., P.E.
Malaysian Models for Engineering Education in the United States, EI Jan. 99, p25-28

Tang, Michael
Changing the Learning Paradigm Through the STC-Link Electronic Archive, with Lynn E. Johnson, EI Jan. 99, p19-24

Tarquin, A., P.E.
see Wicker, R. B., EI Apr. 99, p47-44

Tener, Robert K., P.E.
Stakeholders in Practitioner–Educator Partnering Compare Notes, EI Oct. 99, p130-131

Thompson, David B.
see Rainwater, Ken, EI Apr. 99, p40-46

Touma, Fadlo T.
Challenges to Engineering Education in the 21st Century, EI Oct. 99, p131-132

Turner, Daniel S., P.E.
Look Over the Horizon: A Call for Tomorrow's Champions, EI July 99, p70-74

Vesilind, P. Aarne
Spiritual Dimensions of Environmental Ethic for Engineers, with Alastair S. Gunn, EI July 99, p83-87

Wicker, R. B.
Evaluation Model Using Fundamentals of Engineering Examination, with R. Quintana, P.E. and A. Tarquin, P.E., EI Apr. 99, p47-44

Yarbrough, Stephanie E.
Development, Implementation, and Preliminary Assessment of Virtual Laboratory, with Robert B. Gilbert, P.E., EI Oct. 99, p147-151